

Name Of Client	BRUHAT BENGALURU MAHANAGARA PALIKE						
Name of Work	Construction of RO Plant in ward no 12, Shettyhalli Sub Division						
Work Order No	EE/DD/WO/47/2020-21 dt 24.06.2020						
Name Of Contractor	Sri Govind G						
Job Code No	012-19-000015						
Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit

17	Providing and fixing Special make glazed Vitrified tiles (Granomite finish) of approved make, quality and colour of size 600x600x10mm thick fixed on existing flooring with a special roffe adhesive for flooring and skirting etc., complete including providing spears at required interval and removing stains etc., complete						
	For RO Plant						
	For Flooring	1	4.50	3.00		13.50	
	Long Wall	2	4.50		0.10	0.90	
	Short Wall	2	3.00		0.10	0.60	
						Present Qty	15.00 Sqm

18	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mix finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.						
	For RO Plant						
	For Front Side	2	4.30		0.60	5.16	
						Present Qty	5.16 Cum

19	Providing and fixing in position in cement concrete 1:3:6 steel glazed windows and ventilators side hung/top hung fully openable as per approved drawings using Z angles of 25x33x3mm, weighing 1.419 Kg/m both for outer and inner frames and central mullion section of size 25x46x3mm, weighing 2.28Kg/m duly providing T section 19x19x3mm weighing 0.839 kg/m for glazing of windows not more than 34 cms. c to c including providing and fixing 4mm. thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and electrically grinded subdividing frames of unit shall be tenonned and revetted into the frames electrically. All the steel surface shall be thoroughly cleaned free of rust and painted with one coat of anti-corosive paint and finishing with two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour and HOM of machinery complete as per specifications						
	For RO Plant						
	Windows	2	0.90		0.60	1.08	
						Present Qty	1.08 Sqm

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20	Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m.						
	For RO Plant						
	Rolling Shutter	1	3.00		2.10	6.30	
						Present Qty	6.30
							Sqm

21	Providing, fabricating, assembling and fixing in position aluminium partitions using aluminium sections of mat finish or glassy finish in combination of plain grove, single grove and double grove as per requirements for the frames of overall size 63.5mm x 38.1mm. with thickness of 2mm. having section weight, plain sections 1.054kg/m, single grove thickness 1.95mm. section weight 1.094kg/m, double grove thickness 1.9mm section weight 1.094kg/m and bottom member 114.3 mm. x 44.45mm. thickness 3.18mm. weight 2.646 kg/m; aluminium louvres section of size 36.5mmx34.93mm 1.45mm. thick section weight 0.429kg/m; bottom portions provided with 12mm. thick prelaminated sheet both sides of approved colour lamination exterior grade upto 0.9m height, spacing of vertical member not exceeding 0.6 m. c to c; sections are cut to the required lengths, joints mitred and corners grinded subdividing frames tenoned and rivetted to the frames; the assembled frame stiffened with corner angles, stripped and fixed with screws, rawl plugs and teak wood gutties to R.C.C.columns on sides, R.C.C. lintels or beams at top and floor at bottom, including cutting chistelling and making good with cement mortar to match the surface; providing and fixing 5.5mm. thick plain glass for middle portion viz., 0.9m. to 2.13 m. and top panel with louvres sections; the glass and panels fitted withglazing clips of 19mmx17.3mm. of thickness 0.9mm. weight 0.124kg/ m, aluminium sections treated for removal of any rust and prevention of further rust formation, coated with greasy materials for non-adherence of mortars or any other sticky materials; vertical members embedded in the flooring by making suitable sized holes and fixing with cement mortar, with necessary opening for fixing of door of standard size (excluding cost of door) all the frame throughly cleaned, free from rust, scale or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications.using aluminium section anodized to 12 - 15 microns.						
	For RO Plant						
		1	3.00		2.40	7.20	
						Present Qty	7.20
							Sqm

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22	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes						
	For RO Plant						
	For Water Supply	1	50.00			50.00	
						Present Qty	50.00 Mtr

10/2/21
K. Sreejith
P

23	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 20mm nominal OD pipes						
	For RO Plant						
	For Water Supply	1	50.00			50.00	
						Present Qty	50.00 Sqm

10/8/21
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24	Supplying water storage tanks made of virgin polymer (LLDPE) with two layers outer Black or Blue and inner White layer of approved quality and make, conforming to ISI/ISO/SSI specifications.						
	For RO Plant Water storage tank	1	2000			2000	
						Present Qty	2000.00 Litre

11/2/21
K. Sreejith
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25	Purpose to dose sodium Bi-carbonate for enhances product water SS till the pre-filtration and SS from HPP to the premeter line termination point NRV's pressure relief valves, wherever needed the system will be on common SS base frame supply and manufacture of complete Reverse Osmosis plant stainless steel tank (2kl) Raw water tank (5kl) with stainless steel pipe line required for plant erection. complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	1				1	
						Present Qty	1 No

09/10/21
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P

26	Supplying and wiring adopting loop system PVC Conduit/casing capping using 1100V grade, COPPER conductor flexible multistrand FRLSPVC insulated, 2 X 1.55 q.mm Cable Confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/gang box, the other end of the wires shall be terminated with sufficient loose length in a wood / pvc round block, complete for each outlet. GROUP A b) Medium point above 3 MTr upto 6Mtr from tapping point to out let via switch complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	6				6	
						Present Qty	6 Point

16/2/21
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27	Long point above 6Mtr upto 10 Mtr from tapping point to out let via switch complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	6				6	
						Present Qty	6
							Point

28	Supplying and flush mounting teak wooden box without front plank, made of not less than 12mm thick wood, after due groove cutting, finishing with necessary cement plastering etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	30				30	
						Present Qty	30
							Each

29	(1.6.1) 12"x12"x3 (300x300x76mm) etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	18				18	
						Present Qty	18
							Each

30	(1.6.3) 10"x"x3" (254x178x76mm) complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	15				15	
						Present Qty	15
							Each

31	Supplying 4mm thick plastic sheet with necessary niches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws etc/ complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	1				33333	
						Present Qty	33333
							Sqcm

32	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit GI pipe and plastering, finishing upto wall surface complete upto 50mm conduit in brick wall complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	1	30.00			30.00	
						Present Qty	30.00
							Mtr

33	Supplying heavy gauge PVC conduit pipe 19/20 mm dia 2 mm thick with suitable sie bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	1	25.00			25.00	
						Present Qty	25.00
							Mtr

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34	Supplying and fixing PBBC/Bakelite straight or slant batten holder and wiring with 60w/230 volts lamps etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	4				4	
						Present Qty	4 Each

35	Supplying patti type flurescent tube light fitting of 2 - suitable for 14 watts flurescent tube fitting, made out of M.S sheet and stove enameled with HF electronic ballast locking type brass contact holders mounted on double fold type sheet base fully wired for use on 230 volts AC. Supply including T5 lamp etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	4				4	
						Present Qty	4 Each

36	Wiring for lighting/power circuit using one FRLS PVC insulated 1100V graded, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 and confirming to GTP of GROUP-A1.5 sqmm etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	1	15.00			15.00	
						Present Qty	15.00 Mtr

37	Supplying and fixing cast Aluminum round or oblong type bulk head fitting with GI wire guard, glass cover with 60/100watts 230V GLS lamp etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	8				8	
						Present Qty	8 Each

38	Supplying, fixing, wiring, earth electrode for grounding conduit, LC cutouts and other equipments on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3 of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	1				1	
						Present Qty	1 No

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39	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq mm wire armoured) confirming to IS-3975:1990 (No of strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 and confirming to GTP of GROUP-A etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	1	10.00			10.00	
						Present Qty	10.00 Mtr

40	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe/stoneware pipe on wall/on pole as required in existing trench/duct etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	1	10.00			10.00	
						Present Qty	10.00 Mtr

41	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete for cutting road surface etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	1	5.00			5.00	
						Present Qty	5.00 Mtr

42	Supplying and fixing of class A (medium duty) GI of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV 40mm dia GI pipe etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	1	4.00			4.00	
						Present Qty	4.00 Mtr

43	Supplying and fixing L.T cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers 165sqmm etc., complete as specifications and as per the direction of Engineer-in-charge of the work.						
	For RO Plant	1				1	
						Present Qty	1 No

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